

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (original) A method for operating at least a valve in at least a cylinder of an internal combustion engine, the method comprising:  
operating said valve at least during a first operating condition of a transmission coupled to said internal combustion engine; and  
deactivating said valve at least during a second operating condition of said transmission coupled to said internal combustion engine.
2. (currently amended) The method of Claim 1 wherein said first operating condition of said transmission is ~~an elevated~~ a first transmission oil temperature.
3. (currently amended) The method of Claim 1 wherein said second operating condition of said transmission is a second ~~low~~ transmission oil temperature.
4. (currently amended) The method of Claim 1 wherein said first operating condition of said transmission is a first ~~low~~ gear of said transmission.
5. (currently amended) The method of Claim 1 wherein said second operating condition of said transmission is a fifth ~~high~~ gear of said transmission.

6. (currently amended) The method of Claim 1 wherein said valve is an electrically actuated~~mechanical~~ valve.
7. (currently amended) A method for controlling at least an electrically ~~mechanically~~ actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising:
  - determining an operating condition of a transmission coupled to said internal combustion engine;
  - evaluating whether to operate said electrically ~~mechanically~~ actuated valve in said cylinder based on said operating condition; and
  - operating said selected electrically ~~mechanically~~ actuated valve during a cycle of said cylinder based on said evaluation.
8. (currently amended) The method of Claim 6 wherein said operating condition is the current and ~~next~~ a subsequent gear selection of said transmission.
9. (original) The method of Claim 6 wherein said operating condition is the oil temperature of said transmission.
10. (original) The method of Claim 6 wherein said operating condition is a selected transmission gear.
11. (original) The method of Claim 1 wherein said operating condition is the state of a torque converter lock-up clutch.
12. (original) The method of Claim 6 wherein said operating condition is a torque loss of said transmission.

13. (original) The method of Claim 6 wherein said operating condition is a position of a gear selector switch.
14. (currently amended) A method for controlling ~~electrically~~~~mechanically~~ actuated valves to operate in an internal combustion engine, the method comprising:
  - determining an operating condition of a transmission coupled to said internal combustion engine;
  - selecting a number of ~~electrically~~~~mechanical~~ actuated valves based on said determined transmission operating condition; and
  - operating said internal combustion engine with said selected ~~electrically~~~~mechanical~~ actuated valves during a cycle of said cylinder based on said evaluation.
15. (currently amended) The method of Claim 13 wherein said operating condition is the current and ~~next~~ a subsequent gear selection of said transmission.
16. (original) The method of Claim 13 wherein said operating condition is the oil temperature of said transmission.
17. (original) The method of Claim 13 wherein said operating condition is a selected transmission gear.
18. (original) The method of Claim 13 wherein said operating condition is the state of a torque converter lock-up clutch.
19. (original) The method of Claim 13 wherein said operating condition is a torque loss across said transmission.

20. (currently amended) A method for controlling at least an ~~electrically~~~~mechanically~~ actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising:
- determining an operating condition of a transmission coupled to said internal combustion engine;
  - selecting number of cylinders to operated based on said determined transmission operating condition; and
  - operating said internal combustion engine with said selected number of cylinders during a cycle of said cylinder based on said determination.
21. (currently amended) The method of Claim 19 wherein said operating condition is the current and ~~next~~ a subsequent gear selection of said transmission.
22. (original) The method of Claim 19 wherein said operating condition is the oil temperature of said transmission.
23. (original) The method of Claim 19 wherein said operating condition is a selected transmission gear.
24. (original) The method of Claim 19 wherein said operating condition is the state of a torque converter lock-up clutch.
25. (original) The method of Claim 19 wherein said operating condition is a torque loss of said transmission.

26. (currently amended) A method for controlling at least an electrically~~mechanically~~ actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising:
- determining an operating condition of a transmission coupled to said internal combustion engine; selecting a number of cylinders and electrically~~mechanical~~ actuated valves to operate based on said determined transmission operating condition; and operating said internal combustion engine with said selected number of cylinders and electrically~~mechanical~~ actuated valves during a cycle of said cylinder based on said determination.
27. (currently amended) The method of Claim 25 wherein said operating condition is the current and ~~next~~ a subsequent gear selection of said transmission.
28. (original) The method of Claim 25 wherein said operating condition is the oil temperature of said transmission.
29. (original) The method of Claim 25 wherein said operating condition is a selected transmission gear.
30. (original) The method of Claim 25 wherein said operating condition is the state of a torque converter.
31. (original) The method of Claim 25 wherein said operating condition is a torque loss of said transmission.

32. (original) A computer readable storage medium having stored data representing instructions executable by a computer to control an internal combustion engine of a vehicle, said storage medium comprising:

instructions for operating a valve based on a first operating condition of a transmission coupled to said internal combustion engine; and  
deactivating said valve based on a second operating condition of said transmission coupled to said internal combustion engine.

33. (new) The method of Claim 6 wherein said electrically actuated valve is an electromechanical valve.

34. (new) The method of Claim 7 wherein said electrically actuated valve is an electromechanical valve.

35. (new) The method of Claim 14 wherein said electrically actuated valve is an electromechanical valve.

36. (new) The method of Claim 20 wherein said electrically actuated valve is an electromechanical valve.

37. (new) The method of Claim 26 wherein said electrically actuated valve is an electromechanical valve.